ABSTRACT OF DISCLOSURE

A stator winding method of an induction motor for a compressor. According to the method, a main winding and a sub winding are wound in a concentrated winding type with a regularity so that the main winding and the sub winding each pass through neighboring slots of the stator, wherein at least two slots, the main winding and the sub winding are overlapped. In here, it is preferred that the main winding and the sub winding are overlapped at four (4) slots in a single phase-two (2) polarity-eight (8) slot type induction motor, overlapped at eight (8) slots in a single phase-two (2) polarity-twelve (12) slot type induction motor, overlapped at four (4) or twelve (12) slots in a single phase-two (2) polarity-sixteen (16) slot type induction motor, overlapped at four (4) slots in a single phase-four (4) polarity-twelve (12) slot type induction motor, and overlapped at six (6) slots in a three phase-two (2) polarity-twelve (12) slot type induction motor. Since the main winding and the sub winding are overlapped at some slots without being concentrated on one slot, there occurs no concentration of magnetic flux. Accordingly, since the occurrence of harmonic frequency due to the concentration of magnetic flux can be prevented, more stable revolving magnetic field can be obtained and an asynchronous torque can be prevented from occurring, improving an efficiency of the single phase induction motor.